From the INTERNATIONAL SEARCHING AUTHORITY

PCT DANIEL A. MONACO SEIDEL, GONDA, LAVORGNA & MONACO, P.C. TWO PENN CENTER PLAZA **SUITE 1800** NOTIFICATION OF TRANSMITTAL OF PHILADELPHIA, PA 19102 THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1) Date of Mailing (day/month/year) Applicant's or agent's file SEIDEL, GONDA, LAVORGNA & MONACO, P.C. refer FOR FURTHER ACTION See paragraphs 1 and 4 below 6056-257PC International application No International filing date (day/month/year) PCT/US99/26419 05 NOVEMBER 1999 Applicant TEMPLE UNIVERSITY - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION 1. X The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

Hope Robinson

Telephone No.

(703) 308-0196

From the INTERNATIONAL SEARCHING AUTHORITY

To: DANIEL A. MONACO SEIDEL, GONDA, LAVORGNA & MONACO, P.C. TWO PENN CENTER PLAZA SUITE 1800 PHILADELPHIA, PA. 19102	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1) Date of Mailing (day/month/year)	
Applicant's or agent's file reference 6056-257PC	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US99/26419	International filing date (day/month/year) 05 NOVEMBER 1999	
Applicant TEMPLE UNIVERSITY - OF THE COMMONWEALTH SYS	STEM OF HIGHER EDUCATION	
Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend the when? The time limit for filing such amendments international search report; however, for a where? Directly to the International Bureau of W 34, chemin des Colombet 1211 Geneva 20, Switzer Facsimile No.: (41-22) 74 For more detailed instructions, see the notes on The applicant is hereby notified that no international Article 17(2)(a) to that effect is transmitted herewith.	the claims of the international application (see Rule 46): ents is normally 2 months from the date of transmittal of the more details, see the notes on the accompanying sheet. PIPO tites land 10.14.35 the accompanying sheet.	
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.		
the applicant wishes to avoid or postpone publication, priority claim, must reach the International Bureau as a completion of the technical preparations for international Within 19 months from the priority date, a demand for int wishes to postpone the entry into the national phase un Within 20 months from the priority date, the applicant must	onal application will be published by the International Bureau. If a notice of withdrawal of the international application, or of the provided in rules 90 bis 1 and 90 bis 3, respectively, before the all publication. ternational preliminary examination must be filed if the applicant til 30 months from the priority date (in some Offices even later). perform the prescribed acts for entry into the national phase before e demand or in a later election within 19 months from the priority	

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

Hope Robinson

Telephone No.

From the INTERNATIONAL SEARCHING AUTHORITY

To: DANIEL A. MONACO SEIDEL, GONDA, LAVORGNA & MONACO, P.C. TWO PENN CENTER PLAZA SUITE 1800 PHILADELPHIA, PA 19102	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION	
*	(PCT Rule 44.1)	
	Date of Mailing (day/month/year)	
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below	
6056-257PC		
International application No. PCT/US99/26419	International filing date (day/month/year) 05 NOVEMBER 1999	
Applicant TEMPLE UNIVERSITY - OF THE COMMONWEALTH SYS	STEM OF HIGHER EDUCATION	
1. X The applicant is hereby notified that the international	search report has been established and is transmitted herewith.	
Filing of amendments and statement under Articl	•	
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):		
When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.		
Where? Directly to the International Bureau of W 34, chemin des Colombe 1211 Geneva 20, Switzer Facsimile No.: (41-22) 74	ites land	
For more detailed instructions, see the notes on the accompanying sheet.		
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.		
3. With regard to the protest against payment of (an)	additional fee(s) under Rule 40.2, the applicant is notified that:	
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.		
no decision has been made yet on the protest;	the applicant will be notified as soon as a decision is made.	
4. Further action(s): The applicant is reminded of the following	lowing:	
the applicant wishes to avoid or postpone publication,	onal application will be published by the International Bureau. If a notice of withdrawal of the international application, or of the provided in rules 90 bis 1 and 90 bis 3, respectively, before the al publication.	
	ternational preliminary examination must be filed if the applicant til 30 months from the priority date (in some Offices even later).	
Within 20 months from the priority date, the applicant must all designated Offices which have not been elected in the date or could not be elected because they are not boun	perform the prescribed acts for entry into the national phase before e demand or in a later election within 19 months from the priority d by Chapter II.	

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks Box PCT Washington, D.C. 2023 l

Facsimile No. (703) 305-3230

Authorized officer

Hope Robinson

Telephone No.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

6056-257PC	FOR FURTHER ACTION		Transmittal of International Search Repo as well as, where applicable, item 5 below	
International application No.	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year))
PCT/US99/26419	05 NOVEMBER 199	9	10 NOVEMBER 1998	
Applicant TEMPLE UNIVERSITY - OF THE CO	OMMONWEALTH SYST	EM OF HIGHER EI	DUCATION	
This international search report has bee according to Article 18. A copy is bein This international search report consists	g transmitted to the Intern	ational Bureau.	nority and is transmitted to the applican	nt
X It is also accompanied by a c			eport.	
1. Certain claims were found	unsearchable (See Box I).		
2. X Unity of invention is lackin	g (See Box II).			
3. X The international application international search was carri			amino acid sequence listing and th	i e
X	filed with the international	application.		
	furnished by the applicant	separately from the	international application,	
			nt to the effect that it did not include matte e international application as filed.	er
	transcribed by this Author	ity.		
	the text is approved as sub the text has been establish			
5. With regard to the abstract,				
X	the text is approved as sub	omitted by the applic	ant.	
		may, within one m	e 38.2(b), by this Authority as it appear conth from the date of mailing of this this Authority.	
6. The figure of the drawings to be p	ublished with the abstract	is:		
Figure No	as suggested by the applic	ant.	V Name of the C	
	because the applicant faile		X None of the figure	es.
	because this figure better	characterizes the inve	ention.	

International application No. PCT/US99/26419

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
Please See Extra Sheet.
¥
1. X As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231

International application No.

		••		PCT/US99/2641	
IPC(7) US CL	SSIFICATION OF SUBJECT MATTER :C07H 21/04; A61K 31/47; G01N 33/53; C07K 7/00:530/388.25, 328, 300; 435/6, 7.8, 4, 7.1, 69.2; 536/2 to International Patent Classification (IPC) or to both	23.1, 23.5;	514/19, 12,		
B. FIEL	LDS SEARCHED				
Minimum d	documentation searched (classification system follower	ed by class	ification sym	bols)	
	530/388.25, 328, 300; 435/6, 7.8, 4, 7.1, 69.2; 536/2				
Documentat	tion searched other than minimum documentation to th	e extent tha	at such docun	nents are included	in the fields searched
Electronic d	data base consulted during the international search (n	ame of dat	ta base and, v	where practicable	. search terms used)
EAST,	WEST, Sequence searched in : issued _patents_AA patents_AA.				
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	ppropriate,	of the relevan	nt passages	Relevant to claim No.
Y	LOTTSPEICH et al. The Amino Acid of Human High-Molecular-Mass Kini Biochemistry. 1985, Vol. 152, pages 3 especially Figures 5, 8 and 9.	inogen.	Europear	n Journal of	1-15 and 27-35
Y	TAKAGAKI et al. Cloning and Sequ Human High Molecular Weight an Prekininogens. The Journal of Biologi Vol. 260, No. 14, pages 8601-860 especially Figures 2, 3 and 7.	nd Low ical Cher	v Molecu mistry. 15	ılar Weight	1-15 and 27-35
X Furthe	er documents are listed in the continuation of Box C	. 🔲	See patent	family annex.	
"A" doc	ecial categories of cited documents:		date and not in	conflict with the applic	rnational filing date or priority ication but cited to understand
to b	be of particular relevance her document published on or after the international filing date	*X*	document of par	theory underlying the rticular relevance; the l or cannot be consider	claimed invention cannot be ed to involve an inventive step
cite	cument which may throw doubts on priority claim(s) or which is ed to establish the publication date of another citation or other cial reason (as specified)	·Y•	when the docum	rent is taken alone	claimed invention cannot be
"O" doc mea	cument referring to an oral disclosure, use, exhibition or other ans		considered to it	nvolve an inventive	step when the document is documents, such combination
the	cument published prior to the international filing date but later than priority date claimed	*&*	document memb	per of the same patent	family
	JARY 2000		MAR 2	international sear	rch report

thorized officer
Hope Robinson

Authorized officer

International application No. PCT/US99/26419

	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	KITAMURA et al. Structural Organization of the Human Kininogen Gene and a Model for its Evolution. The Journal of Biological Chemistry. 15 July 1985, Vol. 260, No. 15, pages 8610- 8617. See entire document especially Figures 2-5.	1-15 and 27-35
Y	JP 8-208692 A (SUMITOMO PHARMACEUT CO LTD) 13 August 1996. See entire document.	1-15 and 27-35
Y.	JP 7-82172 A (HOECHST JAPAN LTD) 28 March 1995. See entire document.	1-15 and 27-35
Y, P	US 5,846,821 A (GUERINOT et al.) 08 December 1998. See columns 2-6 and Figure 1A.	8 and 16-26
Y	US 5,830,671 A (DENNIS et al.) 03 November 1998. See entire document.	1 and 16-26
Y	US 5,786,365 A (HEITSCH et al.) 28 July 1998. See entire document.	1 and 16-26
\	US 5,756,291 A (GRIFFIN et al.) 26 May 1998. See entire document.	16-26
A	US 5,596,079 A (SMITH et al.) 21 January 1997. See entire reference.	16-26
		,
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	·	

International application No. PCT/US99/26419

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claims 1-16, 19, 22 and 30-35, drawn to pharmaceutical composition and methods.

Group II, claims 17, 18, 20, 21, 23-28 and 29, drawn to method of inhibiting endothelial cell proliferation.

The inventions listed as Groups I and II do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: because Group I encompasses a product and method of making and using that product which is independent of the method of Group II. The method of Group I is a method of inhibiting angiogenesis and the method of Group II is a method of inhibiting endothelial cell proliferation. The two groups of methods are independent, using separate method steps, active agents, and having different effects. Additionally, the search for a method of inhibiting endothelial cell proliferation does not require a search for a method of inhibiting angiogenesis. They are not obvious variants and are different inventions.

CHAPTER I PCT TELEPHONE MEMORANDUM FOR LACK OF UNITY OF INVENTION



PCT No.: PCT/US99/26419

Examiner: HOPE ROBINSON

Attorney spoken to: DANIEL MONACO

Date of call: 28 JANUARY 2000

Amount of payment approved: \$210.00

Deposit account number to be charged: 19-1135

Attorney elected to pay for ALL additional inventions

Attorney elected to pay only for the additional inventions covered by

 \square Group(s):

-- encompassing --

 \square Claim(s):

Attorney elected **NOT** to pay for any additional inventions, therefore, only the first claimed invention (Group I) covered by Claim(s) has been searched.

Attorney was orally advised that there is no right to protest for any group not paid for.

Attorney was orally advised that any protest must be filed no later than 15 days from the mailing of the Search Report (PCT/ISA/210).

Time Limit For Filing A Protest

Applicant is hereby given 15 days from the mailing date of this Search Report in which to file a protest of the holding of lack of unity of invention. In accordance with PCT Rule 40.2, applicant may protest the holding of lack of unity only with respect to the group(s) paid for.

Detailed Reasons For Holding Lack Of Unity Of Invention:

Detailed Reasons For Holding Lack of Unity Of Invention:

(Continued on a separate sheet)

Note: A copy of this form must be attached to the Search Report.

ATTACHMENT TO CHAPTER I PCT TELEPHONE MEMORANDUM FOR LACK OF UNITY OF INVENTION

Detailed Reasons For Holding Lack Of Unity Of Invention:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claims 1-16, 19, 22 and 30-35, drawn to pharmaceutical composition and methods. Group II, claims 17, 18, 20, 21, 23-28 and 29, drawn to method of inhibiting endothelial cell proliferation.

The inventions listed as Groups I and II do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: because Group I encompasses a product and method of making and using that product which is independent of the method of Group II. The method of Group I is a method of inhibiting angiogenesis and the method of Group II is a method of inhibiting endothelial cell proliferation. The two groups of methods are independent, using separate method steps, active agents, and having different effects. Additionally, the search for a method of inhibiting endothelial cell proliferation does not require a search for a method of inhibiting angiogenesis. They are not obvious variants and are different inventions.